Hazard Analysis Selection Matrix

For new, modified or relocated processes, equipment or experiments, or scale-up of previous work, characterize your process according to the criteria below. Then use the most detailed analysis method called for by any single criterion.

Laboratory: Building _____ **Room** _____ **Responsible Org. Code:** _____
Laboratory Description:

	No Review Required	LHR	MHR	HHR
1. Material Hazard - Acute Toxicity				
HMIS Health Rating: Circle the Hazardous Material Identification System rating, found in the Material Safety Data Sheet (MSDS)	0	1-2	3	4
Cylinder DOT Label: if a cylinder, circle Yes if the DOT label on the cylinder indicates Poison Gas, Corrosive Gas, or Flammable Gas			Yes	
2. Material Hazard - Chronic Toxicity (Circle Yes if the MSDS indicates the material exhibits Chronic Toxicity)			**Yes**	
3. Material Hazard - Flammability (Choose applicable line and circle the HMIS rating from the MSDS)				
< 1 Liter & HMIS Flammability Rating	0-1	2-4		
> 1 Liter & HMIS Flammability Rating	0	1-2	3-4	
≥ 1 Liter and under Pressure or above Flash Point & HMIS Flammability Rating	0		1	2-4
4. Material Hazard - Reactivity (Circle one)				
HMIS Reactivity Rating from MSDS	0-1	2	3-4	
5. Processing Hazard - Radiation (Circle all that apply)				
Laser		Class I-IIIA	Class IIIB-IV	
X-Ray Source		<20kv	>20kv	
Radioisotopes in use	None		Yes	
UV, Infra-red, Microwave, Radio wave		<TLV	>TLV	
6. Processing Hazard - Pressure (Circle any one that applies)				
Non-glass	= 0 psig	< 0 psig or > 0 psig & <90psig	>90psig	
Glassware			< 0 or > 0 psig	
7. Processing Hazard - Chemical Reaction Energy				
Will adiabatic reaction lead to temperature change? Circle one that applies (Check MSDS)	< 60° F		> 60° F	
Will this cause solvent to boil? Circle Yes if applicable			Yes	
8. Processing Hazard - New Technology				
New chemistry of technology. Circle correct answer if applicable	None		Outside of Experience	Unknown Reactions
9. Equipment Hazard - Electrical (Circle one if applicable)	Protected < 120V	Exposed or > 120V		
10. Equipment Hazard - Mechanical (Circle Yes or No)				
Exposed pinch points, belts, chains, rotating parts, knives, suspended loads, stored energy, etc.	Yes	No		
11. Processing Hazard - Thermal				
Unprotected heated or chilled surfaces	> -20° F & < 140° F	< -20° F & > 140° F		
12. Environmental Hazards				
Noise (Circle one. Call x6-6669 if you need assistance)	< 80 dBA	> 80 dBA		
Hood Ventilation Testing (Circle one if applicable)		Exemption	Permit	

Contact the Occupational Safety and Health (OSH) Division, Code 350 for assistance in completing this matrix

Acronyms

DBA	decibels, A-scale	HMIS	Hazardous Material Identification System	TLV	Threshold Limit Value
DOT	Department of Transportation	OT	Odor Threshold		

Branch Head	Date	Supervisor's Designee	Date